

The demand must be filed directly with the competent International Preliminary Examining Authority or, if two or more Authorities are competent, with the one chosen by the applicant. The full name or two-letter code of that Authority may be indicated by the applicant on the line below:

IPEA/ JP

PCT

CHAPTER II

DEMAND

under Article 31 of the Patent Cooperation Treaty:
The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty and hereby elects all eligible States (except where otherwise indicated).

For International Preliminary Examining Authority use only	
Identification of IPEA	Date of receipt of DEMAND 13.06.02
Box No. I IDENTIFICATION OF THE INTERNATIONAL APPLICATION	
Applicant's or agent's file reference FP.590	
International application No. PCT/JP02/00533	International filing date (day/month/year) 25.01.02
(Earliest) Priority date (day/month/year) 26.01.01	
Title of invention METHOD OF READING INFORMATION AND APPARATUS THEREFOR, METHOD OF ACQUIRING SIGNAL FOR USE WITH INFORMATION READING APPARATUS, METHOD OF PROCESSING BAND LIMITATION, METHOD OF EXTRACTING TIMING POINT AMPLITUDE AND METHOD OF PROCESSING SIGNAL THEREOF, READ SIGNAL PROCESSING UNIT, AND METHOD OF PROCESSING READ SIGNAL AND PROCESSING APPARATUS THEREOF	
Box No. II APPLICANT(S)	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) FUJITSU LIMITED 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan	
Telephone No.:	
Facsimile No.:	
Teleprinter No.:	
State (that is, country) of nationality: Japan	State (that is, country) of residence: Japan
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) IWAGUCHI, Isao c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan	
State (that is, country) of nationality: Japan	State (that is, country) of residence: Japan
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) KAKU, Takashi c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan	
State (that is, country) of nationality: Japan	State (that is, country) of residence: Japan
<input checked="" type="checkbox"/> Further applicants are indicated in a continuation sheet.	

PCT

FEE CALCULATION SHEET

Annex to the Demand for international preliminary examination

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">International application No. PCT/JP02/00533</td> <td style="width: 50%; text-align: center;">For International Preliminary Examining Authority use only</td> </tr> <tr> <td>Applicant's or agent's file reference EP 590</td> <td style="text-align: center;">Date stamp of the IPEA</td> </tr> </table>	International application No. PCT/JP02/00533	For International Preliminary Examining Authority use only	Applicant's or agent's file reference EP 590	Date stamp of the IPEA															
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Applicant's or agent's file reference EP 590	Date stamp of the IPEA																		
Applicant <p style="text-align: center; font-size: 1.2em;">FUJITSU LIMITED</p>																			
Calculation of prescribed fees <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">1. Preliminary examination fee</td> <td style="width: 20%; text-align: center; border: 1px solid black;">¥28,000</td> <td style="width: 20%; text-align: center; border: 1px solid black;">P</td> </tr> <tr> <td colspan="3" style="height: 20px;"></td> </tr> <tr> <td>2. Handling fee (<i>Applicants from certain States are entitled to a reduction of 75% of the handling fee. Where the applicant is (or all applicants are) so entitled, the amount to be entered at H is 25% of the handling fee.</i>)</td> <td style="text-align: center; border: 1px solid black;">¥17,100</td> <td style="text-align: center; border: 1px solid black;">H</td> </tr> <tr> <td colspan="3" style="height: 20px;"></td> </tr> <tr> <td>3. Total of prescribed fees Add the amounts entered at P and H and enter total in the TOTAL box</td> <td style="text-align: center; border: 1px solid black;">¥45,100</td> <td></td> </tr> <tr> <td></td> <td colspan="2" style="text-align: center; border: 1px solid black;">TOTAL</td> </tr> </table>		1. Preliminary examination fee	¥28,000	P				2. Handling fee (<i>Applicants from certain States are entitled to a reduction of 75% of the handling fee. Where the applicant is (or all applicants are) so entitled, the amount to be entered at H is 25% of the handling fee.</i>)	¥17,100	H				3. Total of prescribed fees Add the amounts entered at P and H and enter total in the TOTAL box	¥45,100			TOTAL	
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Mode of Payment <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> authorization to charge deposit account with the IPEA (see below) <input type="checkbox"/> cheque <input type="checkbox"/> postal money order <input type="checkbox"/> bank draft </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> cash <input type="checkbox"/> revenue stamps <input type="checkbox"/> coupons <input type="checkbox"/> other (specify): </td> </tr> </table>		<input type="checkbox"/> authorization to charge deposit account with the IPEA (see below) <input type="checkbox"/> cheque <input type="checkbox"/> postal money order <input type="checkbox"/> bank draft	<input type="checkbox"/> cash <input type="checkbox"/> revenue stamps <input type="checkbox"/> coupons <input type="checkbox"/> other (specify):																
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Deposit Account Authorization (<i>this mode of payment may not be available at all IPEAs</i>) <p>The IPEA/ _____ <input type="checkbox"/> is hereby authorized to charge the total fees indicated above to my deposit account.</p> <p><input type="checkbox"/> (<i>this check-box may be marked only if the conditions for deposit accounts of the IPEA so permit</i>) is hereby authorized to charge any deficiency or credit any overpayment in the total fees indicated above to my deposit account.</p>																			
Dep sit Account Number	Date (day/month/year)	Signature																	

(19) 世界知的所有権機関
国際事務局(43) 国際公開日
2002年8月1日 (01.08.2002)

PCT

(10) 国際公開番号
WO 02/059825 A1

- (51) 国際特許分類⁷: G06K 7/10, G06T 1/00
- (21) 国際出願番号: PCT/JP02/00533
- (22) 国際出願日: 2002年1月25日 (25.01.2002)
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- (26) 国際公開の言語: 日本語
- (30) 優先権データ:
特願2001-019271 2001年1月26日 (26.01.2001) JP
- (71) 出願人 (米国を除く全ての指定国について): 富士通株式会社 (FUJITSU LIMITED) [JP/JP]; 〒211-8588 神奈川県 川崎市 中原区上小田中4丁目1番1号 Kanagawa (JP).
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(74) 代理人: 真田 有 (SANADA, Tamotsu); 〒180-0004 東京都 武蔵野市 吉祥寺本町1丁目10番31号 吉祥寺広瀬ビル5階 Tokyo (JP).

(81) 指定国 (国内): CN, JP, KR, US.

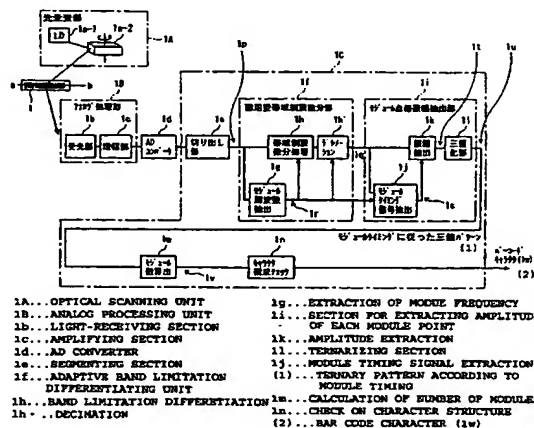
(84) 指定国 (広域): ヨーロッパ特許 (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).

添付公開書類:
— 国際調査報告書

[続葉有]

(54) Title: INFORMATION READING METHOD AND DEVICE, SIGNAL CAPTURING METHOD FOR INFORMATION READING DEVICE, BAND LIMITING METHOD THEREFOR, TIMING POINT AMPLITUDE EXTRACTING METHOD THEREFOR, AND SIGNAL PROCESSING METHOD THEREFOR, READ SIGNAL PROCESSING UNIT, AND READ SIGNAL PROCESSING METHOD AND DEVICE

(54) 発明の名称: 情報読取の方法および装置, 情報読取装置の信号取込方法, 帯域制限処理方法, タイミング点振幅抽出方法および信号処理方法, 読取信号処理ユニットならびに読取信号の処理方法および処理装置



(57) Abstract: An information reading method in which the S/N and read resolution of a read signal are improved while reducing the hardware scale and price, the read accuracy is improved even if the read depth is increased and even if the read surface is uneven or clouded. A signal including binary information having a predetermined information length and arranged

[続葉有]



2文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

linearly is captured from a medium (1), information on the basic unit length of the information length of the binary information is extracted from the captured signal, the information length ratio of the binary information is determined from the captured signal on the basis of the extracted basic unit length information.

(57) 要約:

ハードウェア規模ないし価格を抑えつつ読み取り信号のS/Nとともに読み取り分解能を向上させ、読取深度が拡大した場合や読取面に凹凸やかすみがあった場合の読取精度を向上できるようにした情報読取方法であって、媒体1から、所定の情報長を有して1次元配置された二値化情報を含む信号を取り込み、前記取込信号から前記二値化情報の情報長における基本単位長に関する情報を抽出し、前記抽出された基本単位長情報に基づいて、前記の取込信号から二値化情報の情報長の比を読み取るように構成する。

Continuation of Box No. II APPLICANT(S)

*If none of the following sub-boxes is used, this sheet should not be included in the demand.*Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

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State *(that is, country)* of residence:

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OHKAWA, Masanori
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State *(that is, country)* of residence:

Japan

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WATANABE, Mitsuo
c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome,
Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan

State *(that is, country)* of nationality:

Japan

State *(that is, country)* of residence: Japan

Further applicants are indicated on another continuation sheet.

Continuation of Box No. II APPLICANT(S)

If none of the following sub-boxes is used, this sheet should not be included in the demand.

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

MIYAZAWA, Hideo
c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome,
Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan

State *(that is, country)* of nationality:

Japan

State *(that is, country)* of residence:

Japan

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State *(that is, country)* of nationality:

State *(that is, country)* of residence:

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State *(that is, country)* of nationality:

State *(that is, country)* of residence:

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

State *(that is, country)* of nationality:

State *(that is, country)* of residence:

☐

Further applicants are indicated on another continuation sheet.

Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE

The following person is ☒ agent ☐ common representative
 and ☒ has been appointed earlier and represents the applicant(s) also for international preliminary examination.
☐ is hereby appointed and any earlier appointment of (an) agent(s)/common representative is hereby revoked.
☐ is hereby appointed, specifically for the procedure before the International Preliminary Examining Authority, in addition to the agent(s)/common representative appointed earlier.

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

SANADA Tamotsu
 Patent Attorney (Reg'n No. 9297)
 Kichijoji-Hirose Bldg. 5th Floor, 10-31,
 Kichijoji-honcho 1-chome,
 Musashino-shi, Tokyo 180-0004 Japan

Telephone No.:

0422-21-4222

Facsimile No.:

0422-21-3359

Teleprinter No.:

☐ Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Box No. IV BASIS FOR INTERNATIONAL PRELIMINARY EXAMINATION**Statement concerning amendments:***

1. The applicant wishes the international preliminary examination to start on the basis of:

☒ the international application as originally filed

the description ☐ as originally filed
☐ as amended under Article 34

the claims ☐ as originally filed
☐ as amended under Article 19 (together with any accompanying statement)
☐ as amended under Article 34

the drawings ☐ as originally filed
☐ as amended under Article 34

2. ☐ The applicant wishes any amendment to the claims under Article 19 to be considered as reversed.

3. ☐ The applicant wishes the start of the international preliminary examination to be postponed until the expiration of 20 months from the priority date unless the International Preliminary Examining Authority receives a copy of any amendments made under Article 19 or a notice from the applicant that he does not wish to make such amendments (Rule 69.1(d)). *(This check-box may be marked only where the time limit under Article 19 has not yet expired.)*

* Where no check-box is marked, international preliminary examination will start on the basis of the international application as originally filed or, where a copy of amendments to the claims under Article 19 and/or amendments of the international application under Article 34 are received by the International Preliminary Examining Authority before it has begun to draw up a written opinion or the international preliminary examination report, as so amended.

Language for the purposes of international preliminary examination: Japanese

- ☒ which is the language in which the international application was filed.
☐ which is the language of a translation furnished for the purposes of international search.
☐ which is the language of publication of the international application.
☐ which is the language of the translation (to be) furnished for the purposes of international preliminary examination.

Box No. V ELECTION OF STATES

The applicant hereby elects all eligible States (that is, all States which have been designated and which are bound by Chapter II of the PCT)

excluding the following States which the applicant wishes not to elect:

B x No. VI CHECK LIST

The demand is accompanied by the following elements, in the language referred to in Box No. IV, for the purposes of international preliminary examination:

- | | | |
|--|---|--------|
| 1. translation of international application | : | sheets |
| 2. amendments under Article 34 | : | sheets |
| 3. copy (or, where required, translation) of amendments under Article 19 | : | sheets |
| 4. copy (or, where required, translation) of statement under Article 19 | : | sheets |
| 5. letter | : | sheets |
| 6. other (<i>specify</i>) | : | sheets |

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Examining Authority use only

received not received

<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

The demand is also accompanied by the item(s) marked below:

- | | |
|--|---|
| 1. <input checked="" type="checkbox"/> fee calculation sheet | 4. <input type="checkbox"/> statement explaining lack of signature |
| 2. <input type="checkbox"/> separate signed power of attorney | 5. <input type="checkbox"/> nucleotide and or amino acid sequence listing in computer readable form |
| 3. <input type="checkbox"/> copy of general power of attorney; reference number, if any: | 6. <input type="checkbox"/> other (<i>specify</i>): |

Box No. VII SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the demand).

SANADA Tamotsu (Sealed)

For International Preliminary Examining Authority use only

1. Date of actual receipt of DEMAND:

2. Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):

3. ☐ The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply.

☐ The applicant has been informed accordingly.

4. ☐ The date of receipt of the demand is WITHIN the period of 19 months from the priority date as extended by virtue of Rule 80.5.

5. ☐ Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrival is EXCUSED pursuant to Rule 82.

For International Bureau use only

Demand received from IPEA on: